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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,398	07/15/2003	Johannes Hendrikus van Lith	VAND10	VAND10 7671	
75	90 06/15/2006		EXAMINER		
Ryan A. Schneider			CHARLES, MARCUS		
Troutman Sande	ers LLP				
Bank of America Plaza, Suite 5200			ART UNIT	PAPER NUMBER	
600 Peachtree S	treet, N.E.	3682			
Atlanta, GA 3	0308-2216		DATE MAILED: 06/15/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A 11 41 - NI	1 4 11 44 1					
Office Action Summary		Application No.	Applicant(s)					
		10/619,398	VAN LITH ET AL.	VAN LITH ET AL.				
		Examiner	Art Unit					
		Marcus Charles	3682					
The MAILING DATE of a Period for Reply	this communication app	ears on the cover sheet with the	e correspondence ad	ddress				
WHICHEVER IS LONGER, F - Extensions of time may be available unafter SIX (6) MONTHS from the mailing - If NO period for reply is specified above - Failure to reply within the set or extended	ROM THE MAILING DA der the provisions of 37 CFR 1.13 date of this communication. , the maximum statutory period we ded period for reply will, by statute, an three months after the mailing	IS SET TO EXPIRE 3 MONT ATE OF THIS COMMUNICATION (16(a). In no event, however, may a reply be fill apply and will expire SIX (6) MONTHS for cause the application to become ABANDO date of this communication, even if timely for the second se	ON. timely filed om the mailing date of this of NED (35 U.S.C. § 133).					
Status								
1) Responsive to commun	ication(s) filed on 05 M	av 2006						
2a) ☐ This action is FINAL .		action is non-final.						
·=	•		prospection as to the	o morito io				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
olosed in accordance w	ar the practice under Z	x parte Quayle, 1955 C.D. 11,	433 O.G. 213.					
Disposition of Claims								
4)⊠ Claim(s) <u>1-20</u> is/are per	ding in the application.							
4a) Of the above claim(s	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are al	5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-20</u> is/are reje	6) Claim(s) 1-20 is/are rejected.							
7) Claim(s) is/are ol	ected to.							
8) Claim(s) are subj	ect to restriction and/or	election requirement.						
Application Papers								
9) The specification is object	cted to by the Examine							
·	<u>-</u>		e Evaminer					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
			, ,	ER 1 121(d)				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
1. Certified copies of	1. Certified copies of the priority documents have been received.							
2. Certified copies of	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
•								
Attachment(s)								
Notice of References Cited (PTO-89		4) Interview Summa	ry (PTO-413)					
2) 🔲 Notice of Draftsperson's Patent Drav	ving Review (PTO-948)	Paper No(s)/Mail	Date					
B) Information Disclosure Statement(s) Paper No(s)/Mail Date	(PTO-1449 or PTO/SB/08)	5) Notice of Informal Other:	Patent Application (PTC	D-152)				

DETAILED ACTION

This action is responsive to the Amendment/RCE filed 4/3/06 and 5/5/06 respectively. Claims 1-20 are currently pending.

Continued Examination Under 37 CFR 1.114

1. The request filed on 05-05-2005 for a Request for Continued Examination (RCE) under 37 CFR 1.114 based on parent Application No. 10/619,398 is acceptable and a RCE has been established. An action on the RCE follows.

Claim Rejections - 35 USC § 102

- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-2 and 19-20 are rejected under 35 U.S.C. 102(a) as being anticipated by JP (63-280946) to Kino discloses the claimed invention (see figs. 1-2 and 3) including a convex transition region (2d) comprising two parts having different radii curvature (see attached drawing) such that the first radius at the side surface is larger than that of the second radius at the side of the pulley contact surface.

In claim 2, it is apparent that a line inherently intersects the pulley sheave contact surface. It should be noted the line inherently passes through the intersection of the pulley-engaging surface the transition region. In must cases the line is invisible in the region of the tangent of the line representing the pulley contact surface and the point of contact between the transition region and the pulley contact surface. As shown in the previous rejections, it is apparent that the transition region as shown in the attached

drawings is defined between and interconnects the supporting surface and the pulley sheave contact surface.

In claims 19-20, JP 63-280946) to Kino clearly discloses the drive belt and the continuously variable transmission, wherein the drive belt comprises two endless carriers (3).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over (63-280946). JP (63-280946) to Kino does not disclose the ranges of the radii of curvature for the first and second radii. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the radii of curvature for the first and second radii so that each one has a range as recited by the claimed invention, since it has been held that where the general conditions of a claim are disclose in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.
- 5. Claims 3- 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 63-280946) to Kino in view of Yagasaki et al. (6,110,065). JP (63-280946) does not disclose the pulley contact surface of the belt element is corrugated by means of bulges. Yagasaki et al. discloses a CVT (Fig. 7) comprising belt (E) elements that are

Application/Control Number: 10/619,398

Art Unit: 3682

corrugated by means of bulges (2b) on the pulley contact surface in order to prevent

shock loading and to minimize frictional wear. Therefore, it would have been obvious to

one of ordinary skill in the art at the time of the invention to modify the pulley contact

face of the belt element of (63-280946) so that it is corrugated by means of bulges in

view of Yagasaki et al. in order to prevent shock loading and to minimize frictional wear.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Marcus Charles whose telephone number is (571) 272-

7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ridley Richard can be reached on (571) 272-6917. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Marcus Charles
Primary Examiner

Page 4

Art Unit 3682

June 07, 2006

特開昭63-280946(5)

頭部21部分、即ち頭部両側部分8.8 と上サドル部 2g, 2gを有する従片9 との両者に分割製作し、そ れぞれの各部特密加工を施したものを事後結合し てプロック2 としたので、主片7 における傾斜面 26の角度α、下の精密加工、下サドル部24の半径 R, 、R, 下の球面加工、首部2eにおける4階の Rsによる角取り加工、また各プロックの並列結 合の位置決め、扱れ止め用の係合用凹凸部2h, 2i の対応位置においての成形加工は、何れも滞留5 が全く存在しないことにより、きわめて容易にそ の厳密な高精度加工内容が、機械的研制、研磨手 段あるいは精密型鍛造手段の如何を問わず、充分 に得られるのであり、また従片9 における上サド ル郎28の加工も同様であり、また基本的な原形製 作に当っても、従来のプロック2 を製作するもの に比し、主片7 および従片9 に分けて各個製作す ることは、餌仮打抜き、焼結手段の何れにおいて もきわめて容易であり、量産化を可能として大幅 なコストグウン効果が得られるのであり、またそ の分割位置としても、ブロック頭部21側において

中央部分6 と両側部8.8 とすることは、例えば第9 図に例示するように、首部2eの中央から上下2分する手段に比し、強度上また加工上において零しく有利であり、この種伝導ベルトにおける押し要素として重要な金属プロックの改良として優れた効果を持つものである。

4. 図面の簡単な説明

第1、2、3 各図は何れも本発明ブロック実施例の各正面図、第4、5 図は従来ブロックの正面および擬断側面図、第6 図は同下サドル部、第7図は同上サドル部の各要部断面図、第8図は同首部の機断面図、第9図は接合ブロック例の説明図、第10図は本発明の対象とする伝導ベルト例の擬断正面図、第11図は同ベルト要部の一部切欠斜面図、第12図は同ブロック例の側面図である。

1 …伝導ベルト、2 …金属ブロック、3 …金属フーブ、2a…装部、2b, 2c…傾斜面、2d…下サドル部、2e…首部、2f…頭部、2g…上サドル部、2b…凸部、2i…凹部、6 …頭部中央部分、7 …主片、8 …頭部両側部分、9 …従片。

